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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,018	12/28/2000	Attila Bader	LD 11550	9061

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EXAMINER

WILLIAMS, JOSEPH L

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 02/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/752,018

Applicant(s)

BADER ET AL.

Examiner

Joseph L. Williams

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because of the use of the legalese phraseology "comprises". Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by
Willibrordus et al. (US 5,514,932)

Regarding claim 1, Willibrordus ('932) teaches in figure 3 an electrodeless low-pressure discharge lamp comprising a discharge vessel enclosing a gas-tight discharge cavity (102) containing an ionizable fill (column 3, line 23), the discharge vessel having a light-transmitting bulb portion (101) and a reentrant tube (105) protruding into the discharge cavity, the bulb portion and the reentrant tube each having a surface facing to the discharge cavity; a means arranged at least partially in the reentrant tube for exciting discharge in the ionizable fill; an UV-to-visible-converting layer (104) applied only to the surface of the bulb portion; and an UV reflecting layer (106) applied to the surface of the reentrant tube.

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Regarding claim 2, Willibrordus ('932) teaches the means for exciting discharge in the ionizable fill comprises a supply electronics (141) surrounded by a housing (140) and connected to a coil (130).

Regarding claim 3, Willibrordus ('932) teaches the UV-to-visible-converting layer comprises at least one phosphor layer activated by at least one rare earth element (column 4, lines 45-49).

Regarding claim 4, Willibrordus ('932) teaches the UV reflecting layer is made of one of Al_2O_3 .

Regarding claim 5, Willibrordus ('932) does not explicitly teach the UV reflecting layer having a coating weight resulting in a reflection coefficient of at least 0.7.

However, because teaches Willibrordus ('932) teaches the coating weight of the reflective layer be 5 mg/cm^2 or less, which is greater than the Applicant's coating weight of 4.5 mg/cm^2 , the Examiner infers that because Willibrordus ('932) teaches the same reflector material and coating weight as that of the instant Application, the reflection coefficient of the reflective layer of Willibrordus ('932) is at least 0.7.

Regarding claim 6, and similar to the argument presented above, Willibrordus ('932) teaches the UV reflecting layer having a coating weight resulting in a reflection coefficient of at least 0.9.

Regarding claim 7, Willibrordus ('932) teaches the fill comprises mercury and an inert gas, the UV-to-visible converting layer can be a tri-phosphor layer and the UV reflecting layer is of aluminum oxide and a coating weight of less than 5 mg/cm² which includes that claimed 4.5 mg/cm².

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 5,698,951 teaches the state of the art for an electrodeless lamp with a protective layer.

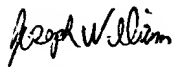
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Williams whose telephone number is (571) 272-2465. The examiner can normally be reached on M-F (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Joseph Williams
Examiner
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